

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
	3. RECIPIENT'S CATALOG NUMBER
DR-996	
TITLE (and SubHillo)	5. TYPE OF REPORT & PERIOD COVERED
(FA) 19304 GSRS	
Missile Number 1919 Round Number V-20	
Round Number V-2p	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(a)	8. CONTRACT OR GRANT NUMBER(*)
WSMR Meteorological Team	DA Task 1T6657-20126-02
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS	12 REPORT SATE
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Atmospheric Sciences Laboratory	NUMBER OF PAGES
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1. Ballistics	
2. Meteorology 3. Wind	teorological data rept.
ABSTRACT (Courthers as reverse attle It reseasesty and identity by bibok number)	
Meteorological data gathered for the launching of Missile Number 1019, Round Number V-20, are present	(FA) 19304 GSRS, nted in tabular form.
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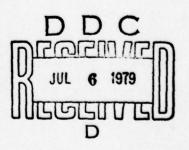
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INTR	CODU		TOM

(FA) 19304	GSRS ,	Missile Numbe	r(s) 1019	, Rou	nd Number(s) V-20
Mexico, at	ere laun 0834	ched from LC- MST,	33, White Sar 30 Mar 79	nds Missile R	nd Number(s) <u>V-20</u> ange (WSMR), New eduled launch time(s)
were 0830	and	MST.		San a limit	

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind direction, wind velocity and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole mounted and tower mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

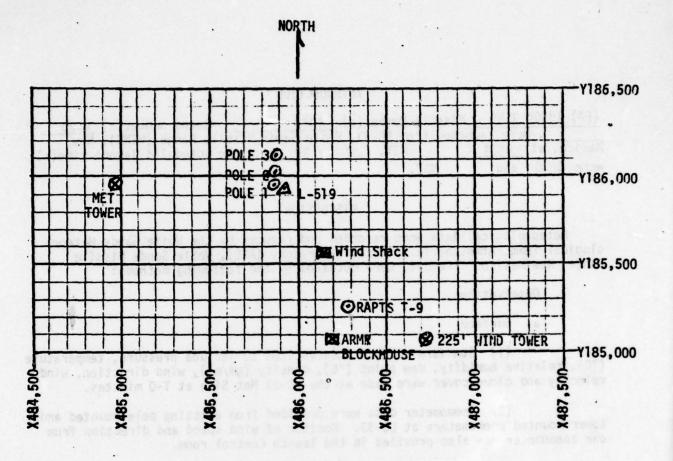
b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation as follows.

SITE AND ALTITUDE

LC-33 1 kilometer (50 meter inc)
T-10 mins and T-0 mins

(2) Air structure data (rawinsonde) were collected at the SMR Met Site at T-0 minutes. Data were collected from surface to 125% of apogee in 500-feet increments.



- MET TOWER 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders in Wind Shack.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders in Wind Shack
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. 225 FT WIND TOWER 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
- 4. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar

The data are presented in the following tabulations:

ELEVATION	3977.30	FEET/MSL
PRESSURE	881.3	MBS
TEMPERATURE	10.7	°C
RELATIVE HUMIDITY	33	x
DEW POINT	-4.8	°C
DEMSITY	1078.1	GM/M ³
WIND SPEED	6	MPH
WIND DIRECTION	020	DEGREES
CLOUD COVER	CLEAR	

TABLE 1. SURFACE OBSERVATIONS TAKEN AT LC-33 AT 0834 MST, 30 MARCH 1979 (FA) 19304 GSRS, MISSILE NUMBER 1019 ROUND NUMBER V-20

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

	POLE #1		,	POLE #2			POLE #3	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED !1PH
-30	006	08	-30	360	01	-30	342	10
-20	342	09	-20	009	01	-20	350	10
-10	343	09	-10	001	03	-10	355	11
0.0	010	07	0.0	001	01	0.0	354	11
+10	010	08	+10	006	01	+10	352	13

POLE #1 = X485,574.29 Y185,958.90 H4018.74 38.7 ft. AGL
POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL

POLE #3 = X485,377.29 Y186,116.06 H4063.92 83.6 ft. AGL

TABLE _	2	_							
TYPE _	19304B	GSPS	MISSILE	NO	1019		ROUND NO.	V-20	
LAUNCHE	D FROM	LC-33	DATE	30	March	1979	TIME	0834	LST
NOTE:	WIND DI	RECTIONS	ARE PEF	ERENCE	D TO T	E FII	RING AZIMUT	н	
OR TRUE	NORTH	TRUE N	IORTH						

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

	EVEL #1 12 ft			EVEL #	2	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED	
-30	340	08	-30	019	07	
-20	340	07	-20	013	07	
-10	348	07	-10	013	07	
0.0	335	09	0.0	021	08	
+10	353	07	+10	928	08	
	EVEL #3		LEVEL #4 202 ft			
T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR	SPEED	
-30	020	16	-30	005	35	
-20	028	16	-20	018	34	
-10	027	17	-10	017	34	
0.0	027	16	0.0	012	34	
	029	16	+10	003	35	

WTSM COORDINATES: X484,982.64 Y185,957.73 H3983.00 (Case)

TABLE	3	- 0199							
LAUNCH	ED FROM	LC-33	DATE	30	March	1979	_ TIME	0834	MST
NOTE:	WIND D	IRECTIONS	ARE REF	ERENC	ED TO	THE FIRE	NG AZI	MUTH	
OR TRU	E NORTH	TRUE N	ORTH						

PILOT BALLOON MEASURED WIND DATA

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
SUR	360	€.0
50	350	5.5
100	348	4.5
150	345	4.0
200	350	11.0
250	345	10.0
300	360	12.0
350	005	11.5
400	010	11.0
450	015	9.5
500	005	9.5

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
550	005	8.5
600	005	9.0
€50	005	8.0
700	050	9.5
750	355	5.0
300	335	3.5
850	345	3.5
900	330	3.0
950	320	4.0
1000	320	7.0
1050		

TABLE _	4		746						
RELEASED	FROM	LC-33	DATE _	30 Marc	th 1979	TIME	0830		LST
RELEASE	POINT	COORDINA	TES (NSTM)	X = 48	36,037.24	Y = 182	2,750.10	11 = 39	77.30
MISSILE	TYPE _	19304E	GSRS M	ISSILE !	10. 1019	ROL	HD HO.	V-2C	
MISSILE	LAUNCI	ED FROM	LC-33	_ DATE _	30 Harch	1979	_ TIME	0834	LST
NOTE: N	IND DI	RECTIONS	ARE REFER	ENCED TO	THE FIFE	NG AZIMU	ידו	<u> </u>	FABLE
OR TRUE	!!ORTI!	TRUE M	ORTH .	10 010					

Causechen tron Cr 24 DATE 30 Names 1979 TIME 0824

PILOT BALLOON MEASURED MIND DATA

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
SUR	020	6.0
50	215	7.5
100	010	8.5
150	010	9.0
200	010	9.5
250	005	11.0
300	005	10.5
350	305	11.5
400	005	10.5
450	300	10.0
500	005	9.0

HE IGHT METERS	DIRECTION DEGREES	SPEED MPH
550	905	9.5
600	015	9.0
€50	355	3.5
700	005	3.0
750	340	2.5
800	355	1.5
850	340	2.5
002	325	2.5
950	315	3.5
1000	310	6.0
1050	7 1 1	

TABLE _	5								
RELEASE	FROM:	LC-33	DATE	30 Mar	ch 1979	TIME_	0834		LST
RELEASE	POINT	COORDINATES	(MSTM)	X = 480	6,037.24	Y = 182	,350.16	Н =	3977.30
MISSILE	TYPE	1930AB GSP	<u>s</u> M	ISSILE M	0. 1019	ROU	MD NO.	V-20	
MISSILE	LAUNCE	HED FROM L	C-33	_ DATE _	30 March	1979	_ TIME_	0834	LST
MOTE: 1	IIND D	IRECTIONS AR	E PEFER	ENCED TO	THE FIRE	NG AZIMU	TH		2
OR TRUE	NORTH	TRUE NORT	11 .						

DATA	
SIGNIFICANT LEVEL	0890060054

GEODETIC COORDINATES	32.48034 LAT DEG	106.42307 LON DEG	
15.			

REL.HUM. PERCENT	332.0 441.0 441.0 113.0 119.0 119.0	
RATURE DEWPOINT CENTIGRADE	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 100
TEMPE AIR DEGREES	10000000000000000000000000000000000000	1
GEUMETRIC ALLITUDE MSL FEET		#1054.6 #2071.3 #2071.3 #2071.3 #2871.3 #2871.3 \$556.8 \$556.8 \$556.8 #13.6 #13.6 #13.6 #13.6 #13.6 #13.6 #13.6 #13.6 #13.6 #13.6
PRESSURE NILLIBARS		

ALTITUE MS. FEET MILLIBARS 3997.3 480.0 450.0 0 879.9 450.0 0 879.9 450.0 0 879.9 879.9 875.0 0 879.9 875.0 0	1 1 1 2 2 2 2 2 2 2 2 1 1 1 2 2 2 2 2 2	TEMPERATURE R DEMPOINT EES CENTIGHADE .3 -5.6						
450000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 000 ± 000 1	-5.6	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND NOTS	WIND DAT DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
4500.0 848.2 850.0 950.0	04 0 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		32.0	1079.7	656.5	360.0	6.6	.00025
\$500.0 844.0 800.0 1250	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-5.7	32.0	1079.6	650.4	360."	6.6	1.000259
\$5000.0 \$5500.	0046994 004699	9-9-	33.6	1060.6		359·n	8.0	1.000255
\$550.0 \$5	2 + 6 4 4 5 1 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	-7.5	35.2	1053.5		357.4	6.1	1.000252
250000 25000 25000	3 m d d d d d d d	-8.1	36.4	1036.4	651.0	354.6	4.3	1.000248
700000 2000 200000 7787 200000 7787 200000 7787 1000000 7787 1100000 7787 1100000 7787 1100000 7787 1100000 7787 1100000 7787 1100000 7787 110000 7787 1100000 7787 110000 778	na- 1	1-8-1	37.6	1023.6	0.649	347.4	•	1.000244
755000 7289 100000 7283 100000 7283 100000 7283 100000 7283 115000	2 - 2 15	-9.3	38.9	10001	648.2	312.3	2.3	1.000240
1000000 125000 125000 125000 1250000 125000 1	1010	-10.1	39.7	84.5	6.040	265.1	3.1	1.000236
45500.0 524 12500.0 524 12500.0 688 12500.0 688 12500.0 688 12500.0 662 12500.0 662 12500.0 662 12500.0 624 12500.0 644 12500.0 644 12500	יוֹי	-10.8	40.4		645.0	283.1	5.4	1.000232
100000 0 0000 0 0000 0 0000 0 0000 0 0000		-11.8	40.5	2.496	4.449	282.1	1.9	1.000227
990000 1000000 11000000 11000000 11000000 11000000	-	M	36.3	0.646	043.6	279.1	11.1	00005
715 700 700 700 700 700 700 700 70	2.1.	-15.6	32.4	933.5	642.7	277.5	14.3	.00051
10500.0 110500.0 110500.0 1250	-1.9	-17.7	28.5	918.3	641.9	279.7	16.2	00001
11000.0 649 11000.0 649 12000.0 649 12500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 627 14500.0 647 14500.0 647	-2.6	-20.0	24.6	5000	641.0	281.4	18.2	
6667 6677 6777 6777	-3.6	-21.4	23.6	886.5	639.8	263.4	18.9	1.000204
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1.4-	-22.5	23.5		638.5	285.	19.5	1.000200
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	-2.8	-23.6	22.8	862.7	637.2	262.4	19.8	1.000197
6.00 6.00	6.01	6.47-	4.22	0.640	6555.9	•	20.1	
6000 6000	-7.8	-25.9	21.8.		634.1	280.0	19.7	1.000190
5000 5000 5000 5000 5000 5000 5000 5000 6000	2.0	51	50.5		654.5	20107	19.1	1.00018/
500 500 500 500 500 500 500 500	2.6.5	-27.9	19.0	806.1	633.9	281.2	16.6	00018
5000 5000 5000 5000 5000 5000 5000 5000 6000	-8.9	-26.3	18.0		633.4	292.4		1.000179
5000 5000	1.6-	-29.4	18.0	778.5	632.5		12.9	1.000176
500 500 500 500 500 500 600 600	1011	1.00		0.00	0.100	0.667	•	1.000173
5000 5000 5000 5000 5000 5000 5000 500	-11.2	-30.7	19.0	7,000	650.1	2001.6	14.3	1.000170
500 500 500 500 500 600 600 600 600 600	12.1	- 22 -	. 1		0	208.0	0.01	1910001
525 500 500 600 600 600 600 600 600 600 60	-14.6	-33.8	17.6	714.3	4.000	294.5	16.5	1.000162
512. 500 502. 502. 502. 601. 601. 601. 602.	-15.8	-35.0	17.4		625.0	283.6	18.7	
502. 0.0 491. 0.0 481. 0.0 462.	-17.0	-36.1	17.2		623.5	275.1	21.4	1.000157
462.	-18.3	57.2	17.0	686.0	622.0	267.5	25.3	1.000154
471. 0.0 471. 0.0 462.	-19.4	-38.0	17.2	6.419	620.7	262.1	29.6	1.000152
471.	-20.5	-36.8	17.4	6.299	019.3	259·H	33.4	1.000149
0000 462.	-21.6	50	17.6	653.0	. 613.0	258.0	36.9	1.000147
. C	-22.6	1.01-	17.8	4.249	610.0	256.4	38.9	1.000144
35.	-23.7	-41.3	18.0	631.9	615.3	255.2	40.5	.00014
0.0	-24.8		18.2		610.9	5	41.6	~
0000	52	-+2.9				253.4		1.00u137
0.00	-27.0				611,2	252·H	43.5	M
3030.0 416.	-28.1	-44.5	18.8	591.6	6.609	251.6	45.3	1.000133

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STATION ALIET	õ	3997.30 FEET MSL	FEET IN	ISL ISL	08900
30 MAR.		0060	IRS MST		2 5
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STATION ALIETUDE 30 MAR. 79 ASCENSION 1.0.	S	3997.30 FEET MSL 0900 HRS MST 4	ET MSL MST		UPPER AIM UATA 089006 ⁰ 054 S M R	S4 S4		32. 32.	GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG	
GEVMETHIC ALTITUDE MSL FEET	PRESSURE	3	TEMPERATURE AIR DEWPOINT GREES CENTIGNADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION SE	SPEED KNOTS	INUEX OF REFRACTION	
23500.0	407.	-28.9	-45.1	19.0	581.5	9.804	249.0	48.0	1.000130	
C4000.0	399	-29.0	-45.2	19.0		608.7	248.6	50.5	1.000128	
64530.0		-30.1	-46.2	19.0	559.9		247.7	52.7	0001	
22000.0		-31.2	-47.1	19.0	550.6		247.0	54.1	1.000123	
<55Cu.0		-32.3	0.84-	19.0	541.3	9.409	245.0	53.5	1.000121	
\$6000·0		-33.4	0.64-	19.0	532.3	. 603.2	240.5	52.8	1.000119	
2650.0.0		-34.6	-20.6	17.7**	523.3	601.8	245.1	51.8	1.000117	
27000.0		-35.7	-52.7	15.5**	514-3		243.7	51.1	1.000115	
27500.0		-36.9	-54.9	13.3**	505.6		545.6	51.4	1.000113	
		-38.1	-57.3	11.1**	6.964		241.7	51.8	1.000111	
		-39.5	0.09-	8.9**	488.5	595	242.1	53.5	1.000109	
<900000		4.04-	-63.0	•	7.084	594.	242.5	3	1.000107	
:		-41.5	-66.8	4.5**	472.0	594.	245.5	3	1.000105	
300000		-42.7			0.494	591.	242.5	2.99	1.000103	
		-43.9	-93.0	•1••	1.954		242.3	9.99	1.000102	
21000.		-45.0			0.811		242.0	56.9	1.000100	
-		-46.1			439.9		241.0	26.7	1.000098	
32050-0	280.3	-47.2			432.1		241.7	56.3	1.000096	
0.00026		-49.5			4.424	564.2	242.1	26.2	1.000095	
33000.0		100			416.8		243.3	56.4	1.000093	
		2000			2.604		10.1.17		16000001	
34500		1110			0.101		5.442	9.50	1.000089	
35000		-52.0			384.1	275	243.2	2.70	1.000087	
0.000		-52.2			375.0		242.6	655	1.000084	
300000		-52.4			367.3		241.8	67.7	1.000082	
30500.0		-53.4			360.3		241.2	70.2	1.000080	
37000.0		-54.5			353.7		241.3	71.9	1.000079	
27530.0		-55.6			347.1		242.2	72.9	1.000077	
3000000	211.	-55.4			338.7		242.7	73.0	1.000075	
365000	200.	-55.5			330.5		242.3	71.1	1.000074	
2900000	201.	-54.7			322.0		241.H	69.2	1.000072	
39500.0	197.	-53.9			313.2		240.3	65.5	1.000070	
40006.0	192.	-53.7			305.0		230.4	62.0	1.000068	
40220-0	186.	-53.4			298.5		239.0	61.0	1.000066	
;	163.	-53.2			5-06-5		240.5	61.0	1.000065	
•		-54.0			285.1		241.2	9.29	1.000064	
:	175.	-24.9			279.0		241.4	66.2	1.000062	
	1/1-1	-55.0			275.2	575.4	645.6	9.69	1.000061	
:		104.7			266.7	575.5	243.5	71.8	1.000059	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

|--|

TES	DEG	DEG
MION	32.48034 LAT DEG	LON
000	1034	2307
TIC	12.46	6.45
GEODETIC	m)	10

### PRESSURE TEMPERATURE REL-HUW, DENSITY SPEED OF WIND DATA #### PROPERTY PROPERTY OF THE PROPERTY PR	STATION ALTITION AND ASCENSION 40.	9 9 40. 54	UDE 3997.30 FEET MSL 0900 HRS MST 54	UPPER AL! DATA 0490060054 S M R		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6E0DET1 32 106	GEODETIC COORDINATE 32.48034 LAT DE 106.42307 LON DE
155.2 -54.9 155.6 -54.9 155.6 -54.9 155.6 -54.9 155.6 -54.9 155.6 -54.9 155.6 -54.9 155.6 -54.9 155.7 -54.9 155.8 -54.9 155.9 -54.8 155.9 -55.0 155.1 -55.0 155.1 -55.0 155.2 -55.0 155.2 -55.0 155.2 -55.0 155.2 -55.0 155.2 -55.0 155.2 -55.0 155.2 -55.0 155.3 -55.0 155.4 -55.0 155.5	UMETRIC TITYDE L FEET	F. I.				WIND DA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
1594. 3-54.9 151954.8 151954.8 151954.8 151954.8 151954.8 151954.8 151954.8 151955.9 1519.	+3500.0	163.	-54.9	250.4		244.3	74.0	1.00005
155.0 - 544.8 155.0 - 544.8 144.4 - 55.0 144.6 - 55.0 144.6 - 55.0 144.6 - 55.0 144.7 - 55.1 144.9 - 55.2 144.9 - 55.2 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 55.3 144.9 - 56.4 156.8 - 57.4 156.9 - 57.4 166.9 - 57.4	0.0000	159.	-54.9	254.3		244.8	76.4	1.000057
146.4 -55.3 236.9 275.0 244.1 82.1 144.9 -55.3 221.7 575.0 244.1 83.9 136.1 -56.1 221.7 574.0 244.1 83.9 136.1 -56.1 25.3 243.7 83.9 83.9 136.2 -56.5 25.3 242.7 83.9 82.4 125.5 -57.9 242.7 82.4 82.4 125.6 -57.9 242.7 82.4 82.4 125.6 -57.9 242.7 242.7 74.8 115.7 -56.9 247.1 242.7 74.8 116.7 -56.9 247.1 77.0 111.2 116.7 -56.9 247.1 77.0 111.2 116.9 -60.9 243.4 77.0 111.2 116.9 -60.9 243.4 77.0 111.2 116.9 -60.9 243.4 77.0 111.4 116.9 -60.9 243.4 77.0 111.4 116.9 -60.9 243.4 77.0 <td>15000-0</td> <td>15.</td> <td>-54.8</td> <td>248.3</td> <td></td> <td>245-1</td> <td>76.8</td> <td>1.00005</td>	15000-0	15.	-54.8	248.3		245-1	76.8	1.00005
144.9 -55.3 134.1 -55.3 134.4 -55.3 134.1 -56.5 134.1 -56.5 134.2 -56.5 131.7 -56.5 131.7 -56.5 122.5 -57.9 122.5 -57.9 122.5 -57.9 122.6 -57.9 122.7 -57.9 122.8 -57.9 122.9 -57.9 122.9 -57.9 122.9 -57.9 122.9 -57.9 122.9 -57.9 110.7 -59.1 110.7 -59.2 111.2 -60.9 111.2 -60.9 110.4 -59.9 110.5 -50.0 110.6 -50.0 110.9 -50.0 110.9 -50.0 110.9 -50.0 110.9 -50.0 110.9 -50.0 110.9 -50.0 110.0 -50.0 11	45500.0	148.	-55.0	236.9		244.7	82.4	1.00005
141.5 -55.7 226.6 574.5 243.4 83.9 134.9 -56.8 212.1 2212.1 243.4 83.2 134.9 -56.8 212.1 573.0 242.8 83.2 125.5 -57.9 242.8 79.7 122.6 78.2 125.5 -57.9 242.8 79.7 122.6 78.2 125.5 -57.9 242.8 79.7 122.6 78.2 125.5 -59.7 190.0 242.8 79.7 78.6 115.7 -59.7 190.0 244.3 75.0 111.1 110.9 -60.0 196.0 246.3 75.0 111.1 77.0 111.2 77.0 111.2 77.0 111.2 77.0 110.0 240.0 244.3 75.0 110.0 240.0 240.0 240.0 240.0 240.0 240.0 110.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0 240.0	4000000	144.	-55.3	231-7		244.1	83.9	1.000052
134.9 - 56.6	40500.0	141.	-55.7	226.6	574.	243.7	83.9	1.000050
131.7 - 56.8 128.6	47500.0		156.5	216.8		24.50	82.4	10000
128.6 -57.3	4-90000-0		-56.8	212-1		242.8	81.1	1.000047
125.5 -57.9 1125.5 -58.5 113.6 -59.7 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.4 113.9 -60.6 113.9 -60.6 113.0 -60.6 113.0 -60.6 113.0 -60.6 113.0 -60.6 113.0 -60.9 113.0	48500.0		-57.3	207.5		242.5	79.7	1.000046
113.6 - 59.1 114.6 - 59.1 115.7 - 59.7 116.7 - 59.7 117.9 - 60.3 117.9 - 60.3 117.9 - 60.3 117.9 - 60.3 117.9 - 60.9 11	0.0006		-57.9	203-1		242.7	78.8	1.000045
113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.3 113.9 -60.9 113.4 -59.0 113.4 -59.0 113.4 -59.0 113.4 -59.1 113.4 -59.1 113.4 -59.1 113.5 -50.3 113.5 -50.3 113.5 -50.3 113.5 -50.3 113.6 -50.3 113.6 -50.3 113.6 -50.3 113.6 -50.3 113.6 -50.3 113.7 -57.3 113.8	0.0000		158.5	196.6	1	243.1	78.0	1.000044
113.9 -60.3 111.2 -60.9 110.5 -60.9 110.6 -60.9 110.6 -60.9 110.7 -60.9 110.8 -60.9 110.9	05000		-59.7	190.4		244.2	75.4	1.00004
111.2 -60.9 104.5 -61.4 105.9 -61.4 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.9 106.9	0.00010		-60.3	186.5		245.1	73.6	1.0000
105.5 -61.4 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.6 105.9 -60.9 106.2 570.3 251.9 66.9 106.2 570.3 251.9 57.4 106.2 570.1 251.9 57.4 106.2 570.1 251.9 57.4 106.2 570.1 251.9 60.0 106.2 570.3 251.9 60.0 106.2 570.3 251.9 60.0 106.2 570.3 251.9 60.0 106.2 570.3 251.9 240.2 106.2 570.3 240.9 240.0 106.2 570.3 240.9 240.0 106.2 570.3 240.0 250.0 106.2 570.0 227.9 240.0 106.2 570.0 227.9 240.0 106.3 26.3 251.0 227.9 250.0 106.3 26.3 251.0 227.9 250.0 106.3 26.3 251.0 227.0 250.0 106.3 26.3 250.0 250.0 250.0 250.0 106.3 26.3 250.0 2	1500.0		6.09-	182.6	a	240.1	71.4	1.000041
103.9 -60.0 103.4 -59.9 100.9 -50.0 100.9 -50.0 100.9 -50.0 100.9 -50.0 100.9 -50.0 100.9 -50.0 100.9 -50.0 100.9 -50.0 100.9 -50.0 150.0	200000		-61.4	176.6	560.	247.1	0.69	1.000040
100.9 -59.9 100.9 -59.1 100.9 -50.1 100.9	0.0002	.001	9.09-	173.7		248.2	66.7	1.000039
98.5 -58.9 90.2 -59.0 90.2 -59.0 90.2 -59.0 90.2 -59.0 90.2 -59.0 90.2 -59.0 90.2 -59.0 90.2 -59.0 90.2 -59.0 90.2 -59.0 90.3 -59.1 90.4 -57.3 90.4 -57.3 90.5 -57.9 90.7 19.0 90.7 -50.0 90.8 -50.0 90.8 -50.0 90.8 -50.0 90.9 -50.0 90.0 -5	2000000	100	-59.9	166.9	7.3	5.642	64.5	1.000036
90.2 - 59.0 90.2 - 59.0 91.6 - 58.5 91.6 - 58.9 91.7 - 57.0 92.1 - 57.0 93.2 - 57.8 93.2 - 57.8 93.2 - 57.8 93.2 - 57.8 93.3 - 58.5 93.7 - 58.5 93.8 - 57.1 95.5 - 53.0 95.5	0000		1.66	2.401		4.002	4.20	1.00003
93.9 -59.1 91.6 -58.5 91.6 -58.5 92.6 -58.5 93.6 -56.9 93.7 -57.3 93.2 -57.3 93.2 -57.3 93.2 -57.3 93.2 -57.3 93.2 -57.3 93.3 -57.3 93.3 -58.5 93.4 -59.1 77.4 -59.1 75.6 -60.1 75.6 -60.1 76.0 -62.0 76.1 -62.0 76.2 -62.0 76.2 -62.0 77.4 -59.1 77.4 -59.1 77.4 -59.1 77.4 -59.1 77.5 -62.0 77.6 -62.0 77.7 -62.0 77.8 -62.0 77.9 -62.0 77.9 -62.0 77.9 -62.0 77.0 -	4500.0		-59.0	150.4		251.7	57.4	1.00003
91.6 -58.5 94.4 -57.3 95.4 -57.3 97.5 -56.9 97.5 -56.9 97.5 -57.8 97.5 -57.8 97.5 -57.8 97.5 -57.8 97.5 -57.8 97.5 -57.8 97.5 -57.8 97.7 -59.1 77.4 -59.1 77.4 -59.1 77.6 -62.0 77.7 -62.0 77.7 -62.0 77.8 -62.0 77.9 -62.0 77.0 -	0.00000		-59.1	152.8		251.9	54.5	1.000034
89.4 -57.3 87.3 -56.9 87.3 -56.9 87.3 -56.9 83.2 -57.3 83.2 -57.8 83.2 -57.8 83.2 -57.8 83.3 -58.2 79.3 -58.6 77.4 -59.1 77.4 -59.1 73.6 -61.0 72.0 -62.0 70.2 -62.0 70.3 -62.0 70.4 -59.1 70.5 -62.0 70.6 -62.0 70.7 -62.0 70.8 -62.0 70.9 -62.0	0.00560		-58.5	148.7		251.0	49.7	1.000033
85.3 -56.9 10 87.2 85.3 -57.3 10 83.2 10 83.2 10 83.2 10 83.2 10 83.2 10 83.2 10 83.2 10 77.4 10 77.4 10 77.4 10 77.4 10 73.6 10 73.6 10 73.6 10 72.0 10 72.0 10 72.0 10 72.0 11 72.0 11 72.0 12 72.0 11 72.0 11 72.0 12 72.0 13.6 56.0 11 72.0 12 72.0 13.6 56.0 14 56.0 15 72.0 16 65.3 10 65.7 10 72.0 10 72.0 10 72.0 10 72.0 10 72.0 10 72.0 10	0.00000		-57.3	144.4		249.0	45.0	1.000032
45.2 -57.3 10 45.2 46.2 -57.8 11 134.6 12 53.7 12 53.7 13 571.7 14 59.1 15 571.7 15 53.7 16 571.7 16 55.6 17 58.6 17 56.1 16 56.1 16 56.1 16 56.8 16 56.8 16 56.8 16 56.9 16	0.0000		-56.9	140.1		240.5	0.04	1.000031
81.3 -58.2	27000.0		-57.3	137.6		4.047	34.7	1.000031
10.0 1.3 -58.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.0007		-57.8	134.6		241.9	29.5	1.000030
77.4 -59.1 126.0 570.0 227.8 23.1 11 126.0 570.0 227.5 23.6 11 123.6 56.1 223.7 26.5 11 114.7 560.1 223.7 26.5 11 114.7 560.1 223.7 26.5 11 116.4 564.8 223.7 26.5 11 116.4 564.8 223.7 26.5 11 116.4 564.8 223.7 26.5 11 11 110.8 503.0 223.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 11 110.8 503.0 232.4 27.7 11 110.8 503.0 232.4 27.7 11 110.8 503.7 233.1 27.2 11 110.8 27.7 1	0.00000		2.001	1.161	5	231.7	27.0	1.00002
75.6 -60.1 73.8 -61.0 72.0 -62.0 72.0 -62.0 72.0 -62.0 110.7 560.1 110.7 560.1 110.4 564.8 223.7 26.5 110.6 564.8 223.7 26.5 110.6 564.8 223.6 27.1 110.6 503.0 232.4 27.7 106.0 563.2 232.4 27.7	990000		1.00.	126.0		232.H	23.1	1.00002
121.1 567.4 223.2 25.6 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.00066		-60.1	123.5		225.6	24.5	1.00002
110.7 260.1 223.7 26.5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00000		-61.0	121.1		223.9	25.6	1.000027
10. (0.2 -63.0 27.1 1 1 10.4 564.8 229.6 27.1 1 1 64.5 -63.0 27.7 1 1 10.8 503.0 23.4 27.7 1 1 10.0 503.2 23.4 27.7 1 1 10.0 503.2 23.1 27.2 1 1 10.0 503.2 23.1 27.2 1 1 10.0 503.2 23.1 27.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00500		-62.0	119.7	560.1	223.7	26.5	1.000026
110.6 564.6 229.3 27.7 1 10.0 564.6 229.3 27.7 1 110.6 565.0 232.4 27.7 1 10.0 565.2 230.1 27.2 1 10.0 555.2 230.1 27.2 1 10.0 555.2 230.1 27.2 1 10.0 55.7 462.6	0.00010		-63.0	116.4	564.8	9.622	27.1	1.000026
110.6 50.5 -62.7 106.0 505.0 250.4 27.7 1 106.0 505.2 250.1 27.2 1 106.0 505.2 250.1 27.2 1	0.00,010		-63.0	113.6		229.3	27.7	1.00002
10 63.7 -62.6 106.3 565.3 234.0 26.9 1	A .		2000	110.6	500	4.56.4	27.7	1.00002
		63.7	1.20-6	106.0		230.1	27.2	1.00002

T MSL	MST
O FEE	HRS
3997.3	0900 HRS MST
LITUDE	S. 215 100 .0. 5
1 AL	20
FATICA	MAR

STATION ALTITUDE 30 MAR. 79 ASLEMSION NO. 5		3997.30 FEET MSL 0900 HRS MST	3.	_	UPPER AIR DATA 0890061054 S M R	ATA \$		GEODETIC 32.46 106.44	DETIC COOKDINATES 32.48034 LAT DEG 106.42307 LON DEG	
GEUMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMI AIR DEGREES	PERATURE DEWPOINT CENTIGKADE	REL . HUM.	DENSITY GM/CUBIC METER	SPEED OF SCUND KNOTS	WIND DATA DIRECTION SP DEGREES(TN) KN	SPEED KNOTS	INUEX OF REFRACTION	
		-62.4			102.7	565.5	241.6	25.9	1.000023	
÷		-62.3			100.5	565.7	243.3	54.9	1.000022	
:	59.5	-62.1			7-76	565.9	244.7	23.9	•	
0.00000		-62.0			95.5	566.1	245.2	22.7	•	
:		-61.9			6-26	560.3	245.4	51.6	1.000021	
-	55.0	-61.7			9.06	566.5	240.4	50.2	•	
0200	53.7	-55.5			82.9	574.8	246.9	19.4	.00001	
	52.4	-54.3			83.4	570.3	247.4	18.2	1.000019	
	•	-54.6			81.6	575.9	249.4	17.5	1.000018	
0.00000		-55.0			19.8	575.4	549.6	16.7	1.000018	
:	48.8	-55.0			78.0	575.4	520.0	16.1	1.000017	
0.00069	47.1	-55.0			1.92	575.4	252.6	16.0	1.000017	
69500.0		-55.0			74.3	575.4	254.4	16.0	1.000017	
2000000		-55.0			72.6	575.4	255.h	15.9	1.000016	
70509.0	•	-55.0			6.02	575.4	255.2	15.3	1.000016	
71000-0		-55.0			2.69	575.4	254.7	14.7	1.000015	
71500-0	45.4	-54.4			4.19	576.3	253.€	13.8	1.000015	
72000-0	41.4	-52.5			65.3	578.7	251.4	12.6	1.000015	
73000	1001	-20.0			63.3	581.1	248.6	11.3	1.000014	
73560.0		1001			8.10	581.4	d.047	10.7	00001	
7.050	20.00	-20-2			h.09	581.5	540.2	10.7	1.000013	
0.0000	37.1	-20.6			29.0	581.2	240.0	10.7	1.000013	
7500.0	30.8	-50.6			57.7	581.2	544.6	10.8	1.000013	
7.5000	2000	1.00-			200	581.1	541.5	11.0	1.000013	
2-0000	2000	-20.			55.1	581.0	238.6	11.2	1.000012	
2.0000	****	200-			55.8	580.9	230.0	11.1	1.000012	
77000.0	22.0	-20.8			52.6	580.9		-	1.000012	
0.0007	25.0	6.00-			4.16	580.8		6.6	1.000011	
0.0001	32.0	-20.9			2.05	560.7	251.3	4.6	1.000011	
140000.0	31.3	-51.0			1.64	580.7	264.4	9.3	1.000011	
78500.0	30.6	-51.1			0.94	580.6	271.2	4.6	1.000011	
1900000	59.6	-51.1			6.94	580.5	287.2	10.3	1.000010	
-		-51.2			45.8	580.4	291.8	10.5	1.000010	
000		-51.3			9.55	580.3	296-1	10.7	1.000010	
2000	27.9	-51.3			43.8	580.2	299.7	10.8	1.000010	
:	27.5	-51.4			45.8	580.1	29d.4	10.2	1.000010	
-000	20.0	-50.6			41.7	20195	290·H	9.5	1.000009	
.000	•	8.64-			9.04	585.2	295.0	8.8	1.000009	
62500.0	25.4	0.64-			39.5	583.3	50462	11.7	1.000009	
000	24.8	-48.1			38.4	584.4	294.5	14.5	1.000009	

		5
STATION	STATION ALITUDE	3997.30 FEET MSL
An us	70	DOUN HRS MST
A SCH NIT	NO NO	7

-	0
LAT	LOS
3034	2307
2.46	6.45
~	2
	32.48034 LAT DEG

PRESSURE HILLIBARS DE 24-3 23-7 23-2								
	TEMP AIR JEGREES	TEMPERATURE DEWPOINT LES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION S DEGREES(TN) K	SPEED KNOTS	INLEX OF REFRACTION
	-47.3			37.4	585.5	294-0	17.4	1.000008
	1.7.4-			36.6		504.5	19.3	1.000008
	-47.5			35.8		504.5	21.1	1.000008
	T-47-7			35.0	584.9	294.6	22.9	1.000008
	-47.9			34.5		594.0	23.8	1.000008
1.6	-43.1			33.5	584.5	295.1	23.1	1.000007
	-48.3			32.8		295.5	22.3	1.000007
-	++8+-			32.0		295.A	21.6	1.000007
0.5	-48.6			31.3		293.8	22.2	1.000007
7	-48.5					291.4	23.1	1.000007
9.3	-48.1			29.9		289.2	24.1	1.000007
6.8	1-47-7			29.5		267.5	25.0	1.000006
2	-47.2			28.5	122	287.0	25.4	1.000006
	-46.8			27.6		280.5	25.8	1.000006
	4.94-			27.1		280.0	26.2	1.000006
7.3 -	0.94-			26.5		280.7	25.9	1.000006
	-45.6			25.8		2003	25.2	1.000006
	-45.2			25.5	584.2	289.7	24.4	1.000006
	144.8			24.6		291.3	23.7	1.000005
9	1.11-			54.6		289.3	23.9	1.000005
	0.44-			23.4		287.3	24.0	1.000005
	-43.6			55.9	590.3	285.4	24.2	1.000005
1	-43.1			22.3	590.8	284.7	25.0	1.000005
•	-42.7			21.8	591.4	285.6	26.8	1.000005
	-42.3		CAIN	21.3		296.4	28.6	1.000005
9.0	-41.9			20.7	15.00	267.1	30.3	1.000005
	-41.5			20.5		284.2	31.0	1.000005
	-41.1			19.6		289.3	31.4	1.000004
300	1-00-			19.5	0.465	290.4	31.8	1.000004
2.6	-40.3			10.0		291.2	32.1	1.000004
	-40.5			16.4	294.0	291.5	32.1	1.000004
	-40.5			18.0	2.465	291.7	32.2	1.000004
	-40.1			17.6	594.7	291.0	32.2	1.000004
1.5	0.04-			17.2				1.000004
	0.04-			16.8				1.000004
1.0 -	-39.9			10.5				1.00004
	-39.8			16.1				1.000004
. 6.0	-39.8			15.7	595.2			1.000004
. 2.0	-39.7			15.4	593.2			1.000003
1.0	-39.6			15.1	595.3			1.000003

STATION ALIITUDE 3997.30 FEET MSL 30 MAR. 79 . 0900 HRS MST ASCENSION NO. 54

MKN SIGNIFICANT LEVEL DATA

0890969054

S M R

32

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

	The state of the s						
GEOPO FENTIAL		GNIM	DATA			TEMPERATURE	
DECAMETERS	DIRECTION DEG (TN)	SPELO	N S	E E E	DEW PT DEP	A I R	PRESSURE MILL TRADE
· · State Care							MILLIDARS
3129.		****6666	***6066-	1	06	-39.6	1.000.1
2971.		17.			00	200	1 000 1
2661.						2000	1.002.1
25.75		. 77	•		56	-48.7	2.000+1
6555		;	;		66	-47.2	2.420+1
-6628		÷	-2.		66	-51.4	2.720+1
2395		'n	-2.		66	-51.1	3.000+1
6203.		•	2.		66	-50.4	4.030+1
2160.		7.	.2		66	-55.0	4.270+1
.002		<u>,</u>	٠,		66	-55.0	5.000+1
2053.		10.	. 4		66	-54.0	5.340+1
		10.	. +		66	-61.7	5.480+1
. 1833.		14.	10.		66	-63.1	7.000+1
-16/1		14.	٠.		66	-59.0	7.760+1
. 1709.			.8		36	-56.7	8.840+1
10/0.		27.	•		35	-59.5	9.280+1
1631.		34.	10.		66	-58.8	1.000+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3997.30 FEET MSL 30 MAP. 79 0900 HRS MST ASCENSION NO. 54

MANDATORY LEVELS 0690000054 S M R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

PRESSURE	PRESSURE GEOPOTENTIAL	TEM	TEMPERATURE	REL.HUM.	WI.D	DATA
MILLIBARS	FEET	AIR	DEMPOINT CENTIGRADE	PERCENT	DEGREES(TN) KN	SPEED
850.0	4935.	7.0	-7.4	35.	357.8	4.9
800.0	6559	3.2	4.6-	39.	308-1	2.3
750.0	8254.	2	-12.8	38.	280.3	9.6
700.0	. 10050.	-2.7	-50.4	24.	281.7	18.4
650.0	11975.	-6.8	-24.7	22.		20.1
0.009	14010.	-8.9	-28.9	18.		14.5
550.0	16214.	-12.7	-32.1	10.		13.8
500.0	18573.	-18.5	-37.4	17.		20.1
450.0	21124.	-24.0	-41.5	18.	554.9	8.04
0.00%	23911.	-28.9	-45.1	19.	248.8	50.3
350.0	27001.	-35.8	-52.0	15.**	243.6	51.1
300.0	30457.	-43.9			242.3	50.6
250.0	24399.	-51.7			244.0	6.19
200.0	59103.	-54.0	Dear San		241.3	6.79
175.0	4191c.	-54.9			241.9	5009
150.0	45151.	-54.8			245.0	81.7
125.0	48951.	-58.0			242.7	7007
100.0	53524.	-58.8			251.0	61.8
90.0	56135.	-58.5			234.9	25.8
70.07	·00864.	-63.1			226.8	27.1
0.00	03932.	-62.2			243.9	24.5
50.0	67739.	-55.0			546.5	10.8
0.04	72435.	-50.4			247.4	10.8
30.0	7658.	-51.1			285.8	10.2
25.0	62481.	4.84-			294.3	13.4
20.0	67310.	L-84-			292.9	22.5
13.0	93580.	-43.5			265.5	24.2
10.0	102642.	-39.6				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALITIUDE 3997.30 FEET MSL 30 AAR. 79 0900 HRS MST ASCENSION NO. 54

MRN HANDATORY LEVELS 089006⁹054 S M R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

	GEOPOTENT ALL AL ALTITUDE UECAMETERS	DIRECTION DEG (TN)	SPEED NEW	DATA N-S MPS	# S 1 S	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
	. 3129.	***6666	****6666	***6066-	***6666-	66	-39.6	1.000+1
	2853.	285.	12.	-3.	12.	66	-43.5	1.500+1
	2061.	293.	12.	-5.	11.	66	-48.7	2.000+1
	2514.	294.	7.	-3.	•	66	1-81-	2.500+1
	2395.	286.	.5	-38 40 -1 of	2.	66	-51.1	3.000+1
	5208.	247.	•	2.	.,	66	-50.4	4.000+1
	2065.	249.	.,	3.	•	66	-55.0	5.000+1
	1950.	244.	13.	•	11.	66	-62.2	6.000+1
	1855.	227.	14.	10.	.01	66	-63.1	7.000+1
		235.	13.	·'n	111.	66	-58.5	8.000+1
	1631.	. 251.	34.	10.	30.	66	-58.8	1.000+2
		243.	40.	19.	.90	66	-58.0	1.250+2
	1,376.	245.	45.	10.	38.	66	-54.8	1.500+2
	1276.	242.	34.	16.	30.	66	-54.9	1.750+2
	1192.	241.	35.	17.	51.	66	-54.0	2.000+2
	1040.	245.	32.	14.		66	-51.7	2.500+2
	928.	242.	29.	14.	.97	66	-43.9	3.000+2
	923.	544.	20.	12.	.47	17	-35.8	3.500+2
	729.	546.	20.		.47	91	-28.9	4.000+2
	. 110	255.	21.	ۍ.	20.	17	-24.0	4.500+2
	.095	.997	13.		13.	19	-18.5	5.000+2
	****	300.	7.		• • •	19	-12.7	5.500+2
	427.	293.	. 1.	-3.	.7.	70	-8.9	6.000+2
	365.	580.	10.	-3-	10.	18	-6.8	6.500+2
	307.	282.	,	-2-	.6	18	-2.7	7.000+2
*	525.	280.	3	;	'n	13	2	7.500+2
	500.	208.	:	-1.		13	3.2	8.000+2
	120.	258.	••	.;	• •	14	7.0	8.500+2

** WIND DATA NOT COMPUTED DUE TO HISSING RAW AZIMUTH AND ELEVATION ANGLES.